



02355.000096.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: N.Y.A.
KIYOHIDE SATOH	)	
	:	Group Art Unit: N.Y.A.
Application No.: 10/644,829	)	
	:	
Filed: August 21, 2003	)	
	:	
For: IMAGE PROCESSING DEVICE	)	
AND METHOD THEREFOR AND	:	
PROGRAM CODES, STORAGE	)	
MEDIUM	:	February 2, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL COMMUNICATION

Sir:

Submitted herewith is a translation of the PCT International Preliminary Examination Report, a copy of the original of which was submitted with the Information Disclosure Statement dated October 2, 2003.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

  
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Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P201-0076PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP01/02547	International filing date (day/month/year) 28 March 2001 (28.03.01)	Priority date (day/month/year) 06 March 2001 (06.03.01)
International Patent Classification (IPC) or national classification and IPC G06T 1/00		
Applicant CANON KABUSHIKI KAISHA		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 02 October 2002 (02.10.02)	Date of completion of this report 20 January 2003 (20.01.2003)
Name and mailing address of the IPEA/JP  Facsimile No.	Authorized officer  Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP01/02547

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP01/02547

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	2, 3, 11, 12, 17-19, 21, 25	YES
	Claims	1, 4-10, 13-16, 20, 22-24, 26, 27	NO
Inventive step (IS)	Claims	2, 3, 11, 12, 21, 25	YES
	Claims	1, 4-10, 13-20, 22-24, 26, 27	NO
Industrial applicability (IA)	Claims	1-27	YES
	Claims		NO

**2. Citations and explanations**

Claims 1, 4-10, 13-16, 20, 22-24, 26 and 27

Document 1: JP, 2000-97637, A (Olympus Optical Co., Ltd.), 7 April, 2000 (07.04.00), full text, all drawings describes an image processing apparatus, comprising (1) an image information acquiring means, (2) a gyro sensor for measuring the posture of an imaging viewpoint, (3) a means for predicting and setting an image to be processed for detecting a predetermined characteristic point, (4) a means for carrying out template matching processing between the characteristic point data provided as a template and the said set image, for detecting the position of the characteristic point, (5) a means for updating and storing the angle information and translational position information obtained by image analysis based on the detected position, and (6) a means for calculating the posture and position of the object to be measured, based on the value measured by the gyro sensor, the angle information and the translational position information.

It is also described that in the case where two or more characteristics points are detected, the position information in three directions is obtained.

Claims 17-19

Document 2: JP, 2000-350860, A (Mixed Reality Systems Laboratory Inc.), 19 December, 2000 (19.12.00), full text, all drawings

describes that a virtual image is superimposed for displaying based on the position and posture of an imaging device. The invention described in document 2 also relates to a feeling of mixed reality, and it is considered to be obvious for a person skilled in the art to apply the invention described in document 2 to the invention described in document 1.

Claims 2, 3, 11, 12, 21 and 25

Documents 1 and 2 neither describe nor suggest that (1) the predicted position of an index in a picked-up image is obtained using both a measured value and the calculated information stored in a storage means, and (2) an image to be applied to the peripheral region of the predicted position is prepared.